

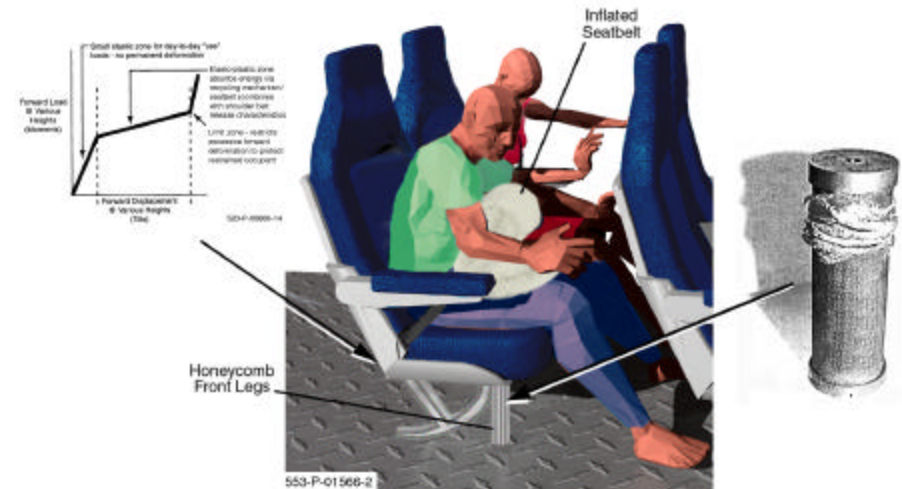
# Improved Crashworthy Aircraft Seat Design

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Proposal No.: A1.02-9278

## Description and Objectives

- An innovative aircraft passenger design which emphasizes superior occupant protection while meeting all structural requirements and improve crashworthiness in transport aircraft accidents will be the objective of this research.



## Approach

- Use of advanced dynamic Finite Element modeling technologies will be used to design this interrelated “system” of seat, energy absorbing metal composite legs and the occupant restraints.

## Subcontractors/Partners

- BE/Aerospace, Litchfield, CT
- AMSAFE, Mesa, AZ
- Cranfield Crash Centre, Cranfield, UK

## Schedule and Deliverables

- Six months
- Two bimonthly reports and one final report

## NASA & Commercial Applications

- The proposed new aircraft seat design will have widespread use in federal and commercial market sectors, with immediate benefits to the aircraft industry. The proposed energy absorbing seats and restraint system has tremendous potential in commercial and military applications of both domestic and international markets